

Theorie-Palaver

April 30, 2024 at 2 p.m.
Lorentz room (Staudingerweg 7, 5th floor)

Marco Fedele
IFIC, Valencia

New Physics in B decays: bugs or features

In the last decade, several measurements have been hinting at the possibility of Beyond Standard Model physics in B decays. Some of these observables have stayed “anomalous” after several experiments released multiple measurements of such quantities, while others have recently suffered a different fate. In this seminar I will recap the current status of experimental anomalies, critically reviewing the theoretical description of these observables in the Standard Model. I will therefore identify which are the quantities with the highest probability of being affected by New Physics, and which are the ones that on the other hand do not require an extension of the SM any longer.